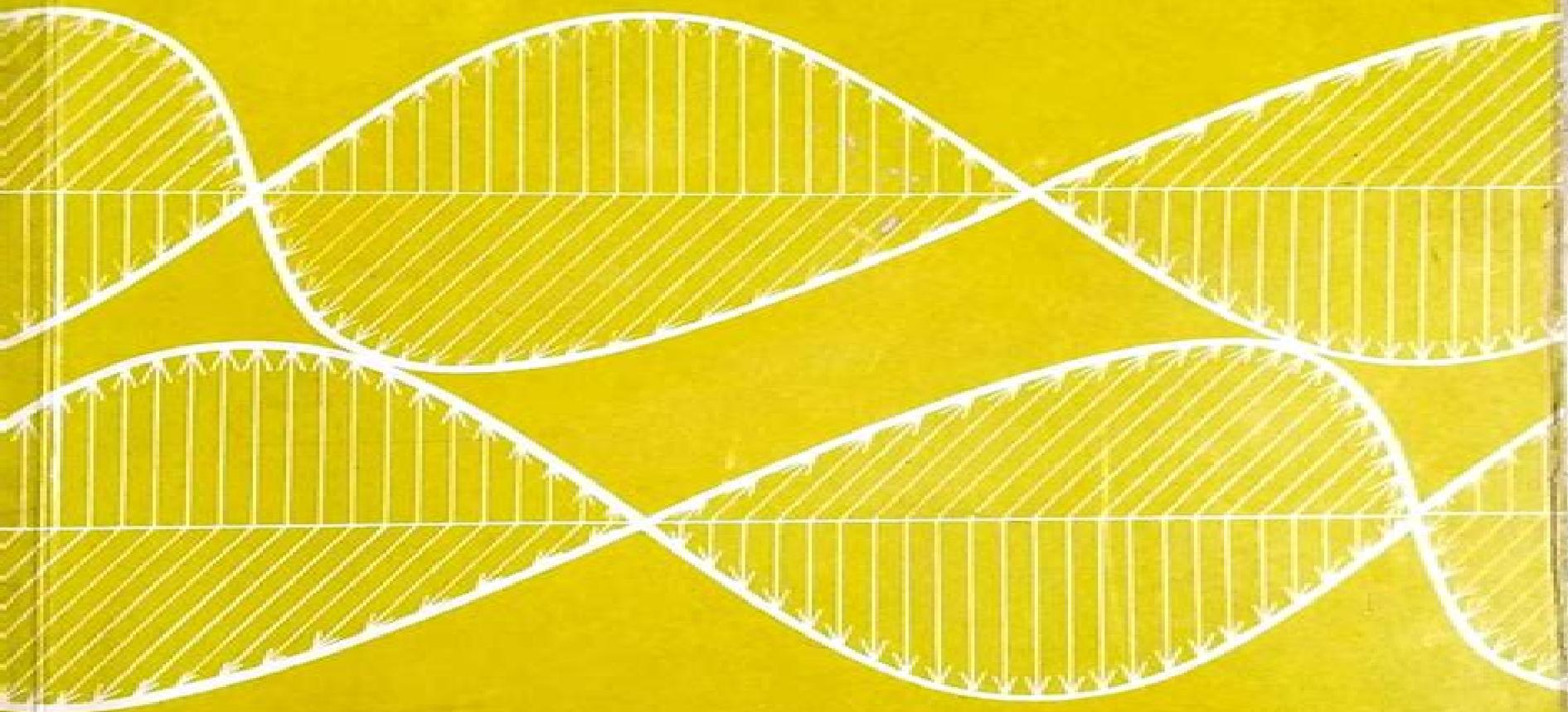


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expansive range of engineering devices gallium arsenide has made possible as well as the fabrication methods operating principles device models novel device designs and the material properties and physics of GaAs that are so keenly integral to their success In a clear five part format the book systematically examines each of these aspects of GaAs device technology forming the first authoritative study to consider so many important aspects at once and in such detail Beginning with chapter 2 of part one the book discusses such basic subjects as gallium arsenide materials and crystal properties electron energy band structures hole and electron transport crystal growth of GaAs from the melt and defect density analysis Part two describes the fabrication process of gallium arsenide devices and integrated circuits shedding light in chapter 3 on epitaxial growth processes molecular beam epitaxy and metal organic chemical vapor deposition techniques Chapter 4 provides an introduction to wafer cleaning techniques and environment control wet etching methods and chemicals and dry etching systems including reactive ion etching focused ion beam and laser assisted methods Chapter 5 provides a clear overview of photolithography and nonoptical lithography techniques that include electron beam x ray and ion beam lithography systems The advances in fabrication techniques described in previous chapters necessitate an examination of low dimension device physics which is carried on in detail in chapter 6 of part three Part four includes a discussion of innovative device design and operating principles which deepens and elaborates the ideas introduced in chapter 1 Key areas such as metal semiconductor contact systems Schottky Barrier and ohmic contact formation and reliability studies are examined in chapter 7 A detailed discussion of metal semiconductor field effect transistors the fabrication technology and models and parameter extraction for device analyses occurs in chapter 8 The fifth part of the book progresses to an up to date discussion of heterostructure field effect HEMT in chapter 9 potential effect HBT in chapter 10 and quantum effect devices chapters 11 and 12 all of which are certain to have a major impact on high speed integrated circuits and optoelectronic integrated circuit OEIC applications Every facet of GaAs device technology is placed firmly in a historical context allowing readers to see instantly the significant developmental changes that have shaped it Featuring a look at devices still under development and device structures not yet found in the literature GaAs High Speed Devices also provides a valuable glimpse into the newest innovations at the center of the latest GaAs technology An essential text for electrical engineers materials scientists physicists and students GaAs High Speed Devices offers the first comprehensive and up to date look at these formidable 21st century tools The unique physical and electrical properties of gallium arsenide has revolutionized the hardware essential to digital computers advanced electronic systems for digital signal processing telecommunication systems and optoelectronics GaAs High Speed Devices provides the first fully comprehensive look at the enormous range of engineering devices gallium arsenide has made possible as well as the backbone of the technology ication methods operating principles and the materials properties and physics of GaAs device models and novel device designs Featuring a clear six part format the book covers GaAs materials and crystal properties Fabrication processes of GaAs devices and integrated circuits Electron beam x ray and ion beam lithography

systems Metal semiconductor contact systems Heterostructure field effect potential effect and quantum effect devices GaAs Microwave Monolithic Integrated Circuits and Digital Integrated Circuits In addition this comprehensive volume places every facet of the technology in an historical context and gives readers an unusual glimpse at devices still under development and device structures not yet found in the literature

**Gas Phase Metal Reactions** A. Fontijn, 2017-05-04 The book brings together for the first time all aspects of reactions of metallic species in the gas phase and gives an up to date overview of the field Reactions covered include those of atomic other free radical and transient neutral species as well as ions Experimental and theoretical work is reviewed and the efforts to establish a closer link between these approaches are discussed The field is mainly approached from a fundamental point of view but the applied problems which have helped stimulate the interest are pointed out and form the major subject of the final chapters These emphasize the competition between purely gas phase and gas surface reactions

Insulated Gate Bipolar Transistor IGBT Theory and Design Vinod Kumar Khanna, 2003 Table of contents

*Handbook of Semiconductor Silicon Technology* William C. O'Mara, Robert B. Herring, Lee Philip Hunt, 1990-12-31 A summary of the science technology and manufacturing of semiconductor silicon materials Properties of silicon are detailed and a set of silicon binary phase diagrams is included Other aspects such as materials handling safety impurity and defect reduction are also discussed

*Semiconductor Silicon Crystal Technology* Fumio Shimura, 1989

Semiconductor Devices S. M. Sze, 1985-05-14 This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices Publisher s description

Microelectronic Processing Walter Scot Ruska, 1987

**Chemical Process Control-CPCIII** Manfred Morari, Thomas J. McAvoy, 1986

**Diffusion and Defect Data**, 1988

**Development of a Wavelength Tunable Filter Using MEMS Technology** Junting Liu, 2002

Fundamentals of Microelectronics Processing Hong H. Lee, 1990

**CMOS Digital Integrated Circuits** Sung-Mo Kang, Yusuf Leblebici, 1999 The second edition of this comprehensive text contains extensive revisions to reflect recent advances in technology and in circuit design practices Recognizing that the area of digital integrated circuit design is evolving at an increasingly fast pace every effort has been made to present state of the art material on all subjects covered in the book This book is primarily designed as a comprehensive text for senior level and first year graduate level digital circuit design classes as well as a reference for practicing engineers in the areas of IC design and VLSI

**Electron Transport Through Chemically-derived Nanostructures** Andrew Kean Leong Lim, 2000

Electronic Packaging and Interconnection Handbook Charles A. Harper, 1997 Charles A Harper s 2nd edition on designing and manufacturing all the major types of electronic systems is now double the size of the 1st edition It draws upon the expertise of a dozen experts to make sense of this highly interdisciplinary field

**Windows on a New World** Joseph Finkelstein, 1989-03-13 The First

Industrial Revolution of the eighteenth century brought fundamental changes in the allocation of people resources and energy In the Second Industrial Revolution the revolutionary impact of automobiles photography electric power and industrial chemicals made the United States a foremost world power The Third Industrial Revolution begins with the information revolution brought about by the computer Each decade since World War II has brought crucial developments in the areas of CAD CAM fiber optics lasers holography biogenetics bioagriculture and telecommunications The synergy of these new scientific industrial areas will change our way of life for the next five decades and beyond Windows on a New World attempts to integrate some of these outstanding changes Nine chapters each written by a specialist in the field deal with the most important topics relevant to microprocessors lasers telecommunications manufacturing management biotechnology and biophysics Throughout the volume other important areas are mentioned such as holography bioagriculture ceramics and superconductors Each contribution shapes the basic science of the subject and then goes beyond to raise pertinent questions and suggest reverberations The work ends with an overview of the consequences of these changes Finkelstein s thesis is that the United States richly endowed by nature fashioned through its history and people the most successful economy the world has known At the end of the nineteenth century it put into place both a private and an academic structure that gave it preeminence in the world of industrial product development That world is changing It is being rebuilt and restructured by new and incredibly important breakthroughs Change and uncertainty are our constant companions For those who see this as negative and frightening he argues that the industrial revolutions of the past lifted the world from poverty and offered new opportunities for millions of people If this is the end of an era it is also the beginning of a new one A study that broadens our understanding of a complex series of developments this extraordinary work will be read with interest by economists politicians scientists historians and all others involved in the fields of business and technology

*Study of Physical Limits of ULSI DRAMS and a Guideline to 16M-bit DRAMS* Tohru Furuyama,1984

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